

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/726,554  
Source: JFWO  
Date Processed by STIC: 07/26/2005

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## RAW SEQUENCE LISTING

DATE: 07/26/2005

PATENT APPLICATION: US/10/726,554

TIME: 09:46:46

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1 <110> APPLICANT: LEE, Jong Wook et al.  
 2 <120> TITLE OF INVENTION: A VARIABLE REGION OF THE MONOCLONAL ANTIBODY AGAINST  
 3 THE HBV S-SURFACE  
 4 ANTIGEN AND A GENE ENCODING THE SAME  
 5 <130> FILE REFERENCE: 1599-0197P  
 6 <140> CURRENT APPLICATION NUMBER: US/10/726,554  
 7 <141> CURRENT FILING DATE: 2003-12-04  
 8 <150> PRIOR APPLICATION NUMBER: US/09/865,483  
 W--> 9 <151> PRIOR FILING DATE: PRIO FILING DATE: 2001-03-29  
 10 <160> NUMBER OF SEQ ID NOS: 14  
 11 <170> SOFTWARE: PatentIn version 3.1  
 13 <210> SEQ ID NO: 1  
 14 <211> LENGTH: 32  
 15 <212> TYPE: DNA  
 16 <213> ORGANISM: Artificial Sequence  
 17 <220> FEATURE:  
 18 <223> OTHER INFORMATION: Primer targeted to the cDNA encoding the light chain  
 19 variable  
 20 region of the monoclonal antibody against the HBV S-surface  
 21 antigen  
 22 <400> SEQUENCE: 1  
 23 cccaagctta gctcctcagt ggaggggtggg aa 32  
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 27 <212> TYPE: DNA  
 28 <213> ORGANISM: Artificial Sequence  
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 30 <223> OTHER INFORMATION: Primer targeted to the cDNA encoding the light chain  
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 38 <211> LENGTH: 36  
 39 <212> TYPE: DNA  
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51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
54 <223> OTHER INFORMATION: Primer targeted to the cDNA encoding the heavy chain
55      variable
56      region of the monoclonal antibody against the HBV S-surface
57      antigen
58 <400> SEQUENCE: 4
59      cccaagcttc caggggccag gggatagacg gatgg      35
61 <210> SEQ ID NO: 5
62 <211> LENGTH: 327
63 <212> TYPE: DNA
64 <213> ORGANISM: Escherichia coli
65 <400> SEQUENCE: 5
66      caggctgttg tgactcagga atctgcactc accacatcac ctggtgaaac agtcacactc      60
67      acttgctcgt caagtactgg ggctattaca actaataact ttgccaactg ggtccaagaa      120
68      aaaccagatc atttattcac tgggtctaata ggtgatacca acaaccgagt tccgggtgtt      180
69      cctgccagat tctcaggctc cctgattgga gacaaggctg ccctcaccat cacaggggca      240
70      cagactgaag atgaggcaat atatttctgt gctctatggt acaacaactg ggtgttcggt      300
71      ggaggaacca aactgactgt cctagggc      327
73 <210> SEQ ID NO: 6
74 <211> LENGTH: 342
75 <212> TYPE: DNA
76 <213> ORGANISM: Escherichia coli
77 <400> SEQUENCE: 6
78      cagggtgcagc tgaagcagtc aggacctggc ctagtgcagc cctcacagag cctgtccatc      60
79      acctgcacag tctctggttt ctcathtaagt acctatgggtg tacagtgggtg tcgccagtct      120
80      ccaggaaagg gtctggagtg gctgggagtg atatggagtg gtggaaacac agactataat      180
81      gcagctttca tatccagact gagcatcagc aaggacaact ccaagaacca agttttcttt      240
82      aaagtgaaca gtctgcaagc tgatgacaca gccatatatt attgtgccag agcacggtac      300
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86 <211> LENGTH: 109
87 <212> TYPE: PRT
88 <213> ORGANISM: Escherichia coli
89 <400> SEQUENCE: 7
90      Gln Ala Val Val Thr Gln Glu Ser Ala Leu Thr Thr Ser Pro Gly Glu
91      1              5              10              15
92      Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Ile Thr Thr Asn
93      20              25              30
94      Asn Phe Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr Gly
95      35              40              45
96      Leu Ile Gly Asp Thr Asn Asn Arg Val Pro Gly Val Pro Ala Arg Phe
97      50              55              60
98      Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly Ala
99      65              70              75              80

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100      Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Asn Asn
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102      Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
103                      100                      105
105 <210> SEQ ID NO: 8
106 <211> LENGTH: 114
107 <212> TYPE: PRT
108 <213> ORGANISM: Escherichia coli
109 <400> SEQUENCE: 8
110      Gln Val Gln Leu Lys Gln Ser Gly Pro Gly Leu Val Gln Pro Ser Gln
111      1                      5                      10                      15
112      Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Ser Thr Tyr
113                      20                      25                      30
114      Gly Val Gln Trp Val Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Leu
115                      35                      40                      45
116      Gly Val Ile Trp Ser Gly Gly Asn Thr Asp Tyr Asn Ala Ala Phe Ile
117                      50                      55                      60
118      Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Asn Gln Val Phe Phe
119      65                      70                      75                      80
120      Lys Val Asn Ser Leu Gln Ala Asp Asp Thr Ala Ile Tyr Tyr Cys Ala
121                      85                      90                      95
122      Arg Ala Arg Tyr Phe Asp Val Trp Gly Ala Gly Thr Thr Val Thr Val
123                      100                      105                      110
124      Ser Ser
126 <210> SEQ ID NO: 9
127 <211> LENGTH: 14
128 <212> TYPE: PRT
129 <213> ORGANISM: Escherichia coli
130 <400> SEQUENCE: 9
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132      1                      5                      10
134 <210> SEQ ID NO: 10
135 <211> LENGTH: 7
136 <212> TYPE: PRT
137 <213> ORGANISM: Escherichia coli
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140      1                      5
142 <210> SEQ ID NO: 11
143 <211> LENGTH: 8
144 <212> TYPE: PRT
145 <213> ORGANISM: Escherichia coli
146 <400> SEQUENCE: 11
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148      1                      5
150 <210> SEQ ID NO: 12
151 <211> LENGTH: 5
152 <212> TYPE: PRT
153 <213> ORGANISM: Escherichia coli

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156       1                   5  
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160 <212> TYPE: PRT  
161 <213> ORGANISM: Escherichia coli  
162 <400> SEQUENCE: 13  
163       Val Ile Trp Ser Gly Gly Asn Thr Asp Tyr Asn Ala Ala Phe Ile Ser  
164       1                   5                   10                   15  
166 <210> SEQ ID NO: 14  
167 <211> LENGTH: 6  
168 <212> TYPE: PRT  
169 <213> ORGANISM: Escherichia coli  
170 <400> SEQUENCE: 14  
171       Ala Arg Tyr Phe Asp Val  
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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/726,554

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